

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 81-11983

Exam Date: 5/17/2012

1. Current Owner: LOWELL MEYER
PO BOX 1247
ASPEN CO 81612
(970)925-9094

2. Accompanied by:

Dena Comer (208)926-7563, 353 Clearcreek Rd, Kooskia, ID 83539 and
And Jason Loughran (208)926-7701

Relationship to Permit Holder: ground-keepers; contact person for Mr. Meyer

3. SOURCE

SPRING

TRIBUTARY

SINKS

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None. Ones showing on ArcMap are 81-7057 groundwater source for domestic 2 homes (Stephen Smith, property located to the west), and 81-7162 State of Idaho (minimum stream flow).
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

SPRING L6 NW1/4SE1/4NW1/4 Sec. 6, Twp 32N, Rge 05E, B.M. IDAHO County

Method of Determination: Garmin GPS Map 76S, and ArcMap 2009 & 2011

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
32N	05E	6								X									
										L 6									

Method of Determination: Garmin GPS Map 76S, and ArcMap 2009 & 2011

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☐ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☐ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☐ Photo of Diversion and System Attached

4.

**Well or Diversion
ID No.*****Motor Make****Hp****Motor Serial No.****Pump Make****Pump Serial No. or Discharge
Size**

Entire system is "gravity flow":

Spring discharges into a 24 inch culvert with a 2 inch discharge to about 100 ft of 2 inch buried iron pipe to a 6' X 6' collection tank (1,000 gallons), with a 1 ½ inch discharge to 1 ½ inch buried poly pipe to 2 frost free hydrants (one located SW, and one SE of the house).

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1. Measurements:

Due to the line being broken, no physical measurement could be taken from the frost free hydrants, and there was no way to take a measurement directly from the spring. The grounds man had not been up to the spring since the fall, so he stated that the pipe would be repaired immediately. For this reason, a pipe conversion calculation was used to calculate the capacity of the system.

Pipe Conversion for a 1 ½ inch pipe:

$$Q = 5 \times 3.1416 \times [(1.5/12)/2]^2$$

$$1 \frac{1}{2} \text{ inch} = 0.06 \text{ cfs capacity}$$

RECOMMEND:

Domestic internal/external use for 1 home = 0.04 cfs

E. VOLUME CALCULATIONS

1. Volume Calculations for Domestic:

RECOMMEND:

IDWR Standard for Domestic internal/external use = 1.2 AF

F. NARRATIVE/REMARKS/COMMENTS

At the spring is a 24 inch culvert that discharges to 2 inch buried iron pipe about 100 ft to a 6 ft X 6 ft collection tank (1,000 gallons) with a 1 1/2 inch discharge to 1 1/2 inch buried poly pipe that runs to one frost free hydrant located SW and one SE of the house. At the time of the field exam, the spring was flowing, since you could see water in the 24 inch culvert, but at the 6 ft X 6 ft collection tank there was no water, therefore no physical measurement could be taken at the frost free hydrants. Jason Loughran, the grounds man, said there must be a broken line between the culvert and the collection tank, since it normally works well, and the owner installed the system also for additional fire protection. The grounds man stated that he would contact the owner, and begin repairing the system immediately. Use is for domestic internal and external use (lawn and landscape).

Have conditions of permit approval been met? ☒ Yes ☐ No**H. RECOMMENDATIONS**

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	01/01 to 12/31	0.040 CFS	1.20 AF
<u>Totals:</u>		0.040 CFS	1.20 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name

Sandy Hemenway

Date

5/22/2012

POD springs
24" copper
1/2" buried from
1000 gallon
collection tank

Red Pine Creek

1 1/2" poly

hydrant #2

hydrant #1

hydrant #3

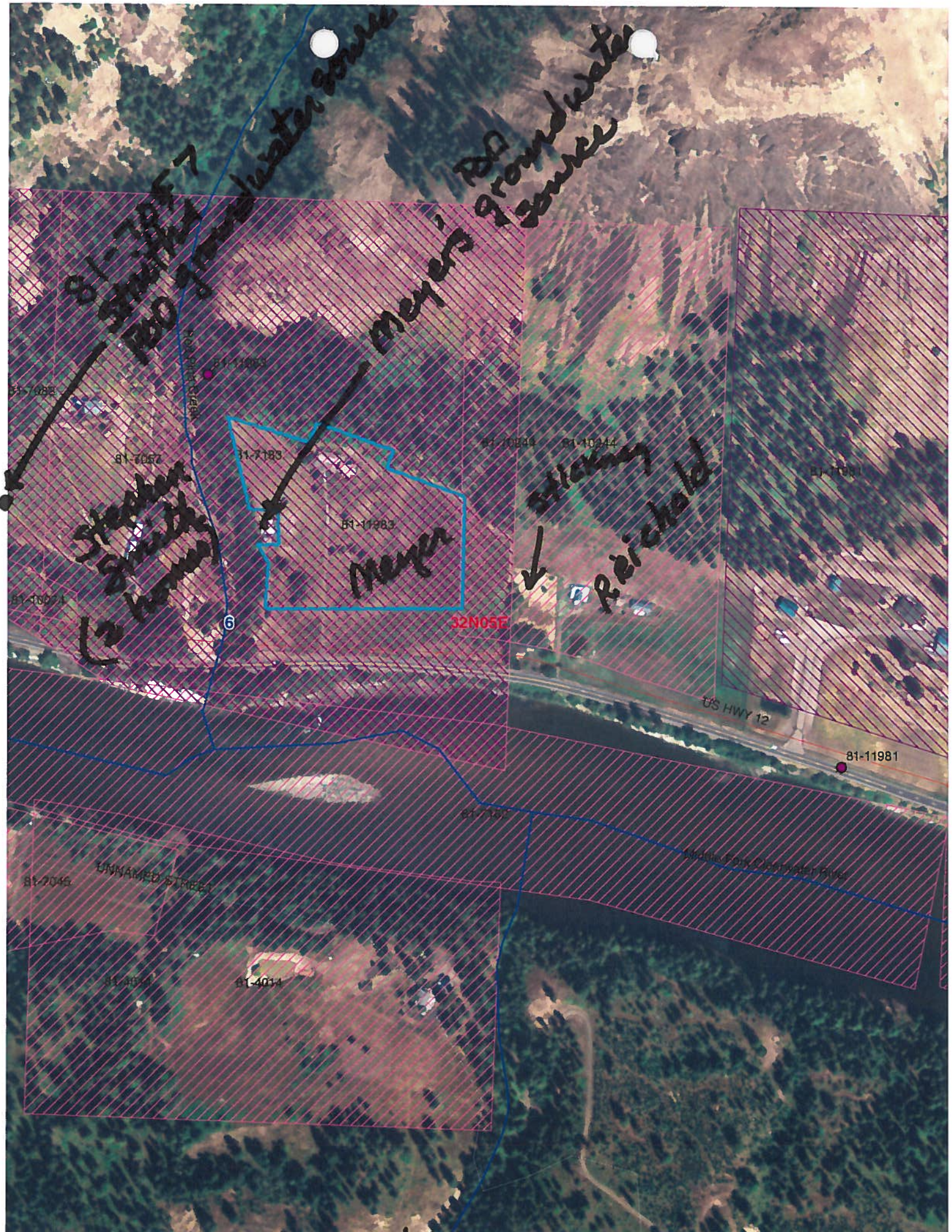
6

32N05E

US HWY 12

UNNAMED STREET

Middle Fork Clearwater River





PSU
house
+
#1
frostfire
spring
source

looking
NE



looking
SE



Locat
of
spring

05/17/2012



#2
frost
free
hydro
(spring
source)

05/17/2012



#2
Prost
Free
Hydro

05/17/2012



POD
(24"
cable
with
2"
discha
to
approx
100' of
2" bur
iron p
going
collecti
tande

05/17/2012



6'x6'
collect
tank
(1,000
gallon

1 1/2"
discha
to 1 1/2"
buried
poly t.

#1+##

frost
free
hydrant